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(54) Method of controlling fine particulate flowback in subterranean wells

(57) A wellbore penetrating a subterranean formation is treated with a fluid whereby fine particulate flowback is reduced or prevented. The method includes the steps of providing a fluid suspension including a mixture of a particulate coated with a tackifying compound, pumping the suspension into a subterranean formation and depositing the mixture within the formation whereby the tackifying compound retards movement of at least a portion of any fine particulate within the formation upon flow of fluids from the subterranean formation through the wellbore. Alternatively, the tackifying compound may be introduced into a subterranean formation in a diluent containing solution to deposit upon previously introduced particulates to retard movement of such particulates and any fines subject to flow with production of fluids from the subterranean formation.

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01-12-1998

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5501274	A	26-03-1996	EP 0735235 A NO 953109 A US 5787986 A US 5833000 A US 5775425 A	02-10-1996 30-09-1996 04-08-1996 10-11-1996 07-07-1998
US 5501275	A	26-03-1996	US 5439056 A US 5330006 A AU 679711 B AU 5790894 A CA 2119316 A NO 941182 A EP 0619415 A	08-08-1995 19-07-1994 10-07-1997 06-10-1994 06-10-1994 06-10-1994 12-10-1995
US 4010802	A	08-03-1977	CA 1040094 A	10-10-1978
US 3815680	A	11-06-1974	NONE	

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EP 97 30 7807

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01-12-1998

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5501274	A	26-03-1996		EP 0735235 A NO 953109 A US 5787986 A US 5833000 A US 5775425 A		02-10-1996 30-09-1996 04-08-1998 10-11-1998 07-07-1998
US 5501275	A	26-03-1996		US 5439058 A US 5330005 A AU 679711 B AU 5790894 A CA 2119316 A NO 941182 A EP 0619415 A		08-08-1995 19-07-1994 10-07-1997 06-10-1994 06-10-1994 06-10-1994 12-10-1995
US 4010802	A	08-03-1977		CA 1040094 A		10-10-1978
US 3815680	A	11-06-1974		NONE		

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